



XIS & ICSF Developer Guidance

Status Update
1 March 2002

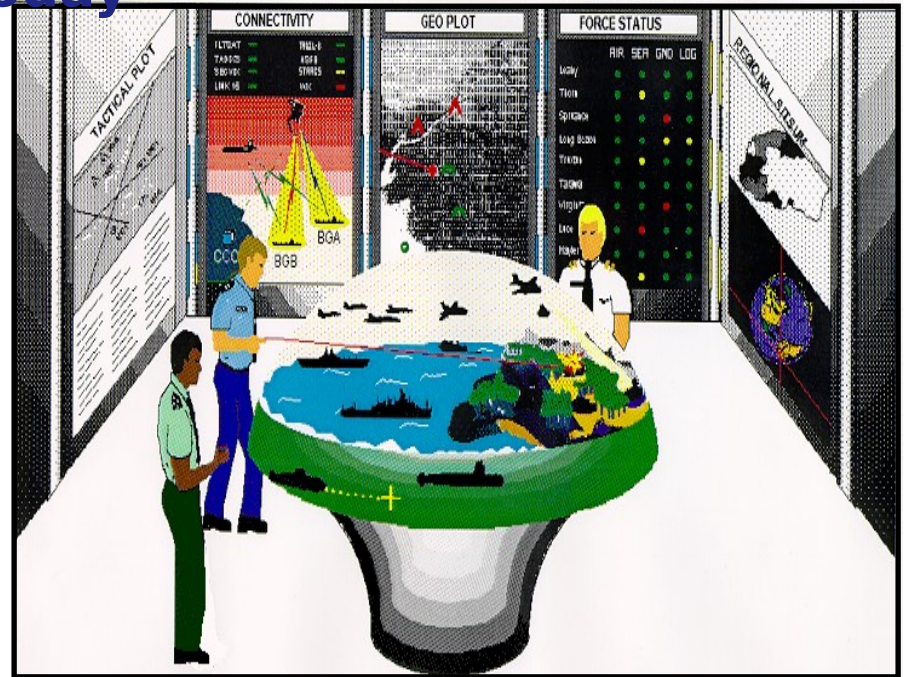
Dr. J. L. Lawrence
jlawrence@fgm.com
(703) 478-9881



The Operational Context

DISA provides the Warrior today with:

- **Virtual Battle Map PLUS -**
“click” access to amplifying data about the battle map in tables, text, multi-media, mission apps, etc.
- **Supporting tools and data to conduct, monitor, and plan joint operations (logistics, Intel, planning, etc.) in warfare and operations other than warfare**



In the future ... GIG



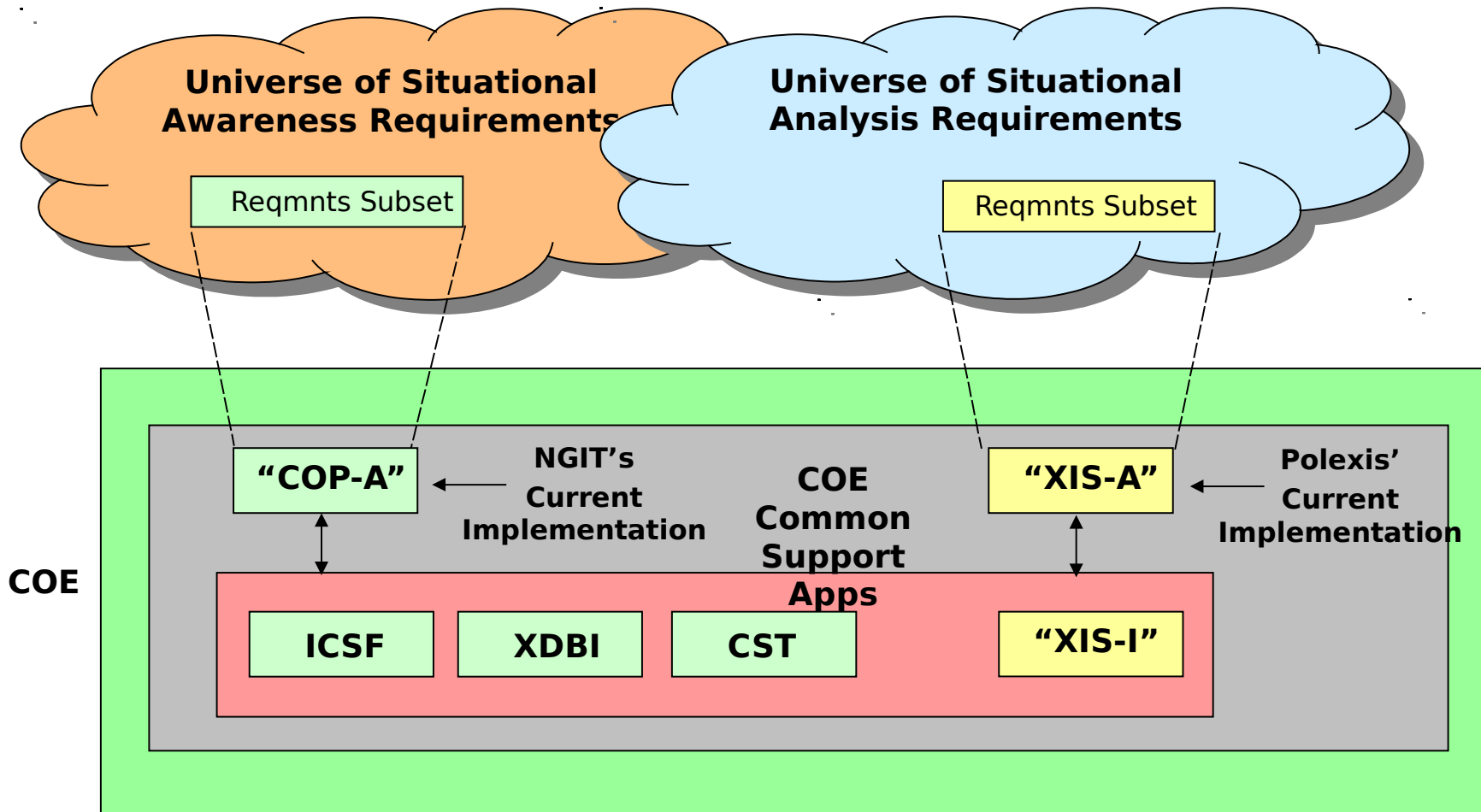
A Useful Way to Subdivide the Operational Context

The Present Operational Context is composed of inter-related functional areas:

- **Situational Awareness (What's happening?)**
 - "Real time" view of the current disposition of "tactical" objects (forces, targets, "tactical" roads & airfields, etc.)
 - Typically presented to user on a geographic display
 - Typically data "push" with "smart pull" architecture
 - "Keep me informed of the evolving situation" scenarios (standing query)
- **Situational Analysis (How did it happen? What are my options?)**
 - Evaluation of "tactical" and "non-tactical" data
 - Geographic display is only one of many possible data presentation techniques (tables, charts, spreadsheets, etc.)
 - Needs "real time" data access, but analysis typically not "real time"
 - Typically data pull architecture - characterized by ad hoc user queries
- **Other Supporting Information & Systems (What support is available?)**
 - Logistics, medical, transportation, etc.

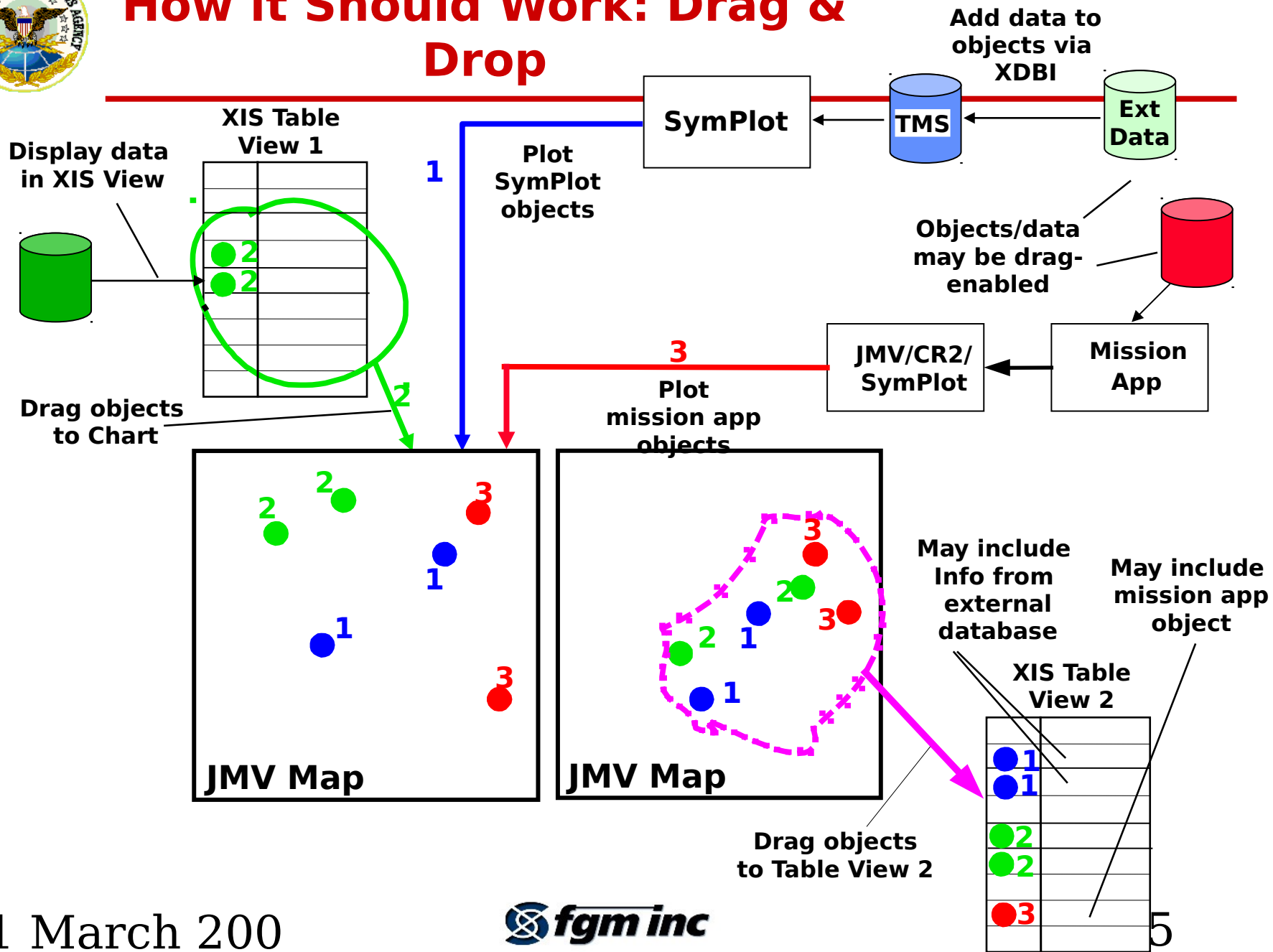


A Recommended Way to Characterize ~~the Current Implementation~~





How it Should Work: Drag & Drop



1 March 200



Some Example Guiding Principles

- **The data producer and consumer are loosely coupled**
 - They agree upon a protocol or an API
- **The data producer determines whether or not a consumer can initiate a data action (delete, edit, ...)**
 - Producer determines access rights
- **The data consumer determines whether or not to accept or ignore an update**
- **The data producer is always the authoritative source for an object**
- **Transfer of ownership only occurs if the data producer says so**
 - Data transformation does not imply transfer of ownership
 - Drag & Drop does not imply transfer of ownership
 - Visualization does not imply transfer of ownership



Next Steps

1. **Resolve Terminology!**
2. **Develop a COE Engineering Office Position paper**
 - Include Usage Flowcharts and Use Case Examples
3. **Brief Community “Players”**
 - Contractors (NGIT, Polexis)
 - NGIT & Polexis are helping to produce the final position brief
 - Government
 - Pasek, Fernandes, Davis - Completed
 - Walker, Baird, Kuzma, et al - Completed
 - COP TWG
 - AOG
 - COE Developer’s Conference
 - Scheduled for May timeframe



Summary

Can I

- **Field XIS-A without COP-A?**
 - Yes
- **Field COP-A without XIS-A?**
 - Yes
- **Field XIS-A plus COP-A?**
 - maybe - depends on XIS-A
- **Field XIS-A without ICSF?**
 - open - depends on XIS-I benefits
- **Field COP-A without XIS-I?**
 - Yes
- **Field XIS-I plus ICSF?**